

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

02567AA

Application Number

09/667,689 #5

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.2.	1	4,675,147	6-23-87	Schaefer et al.	—	—	4-6-83
	2	4,736,453	4-5-88	Schloemer	—	—	12-10-85
	3	4,885,694	12-5-89	Pray et al.	—	—	4-29-87
	4	5,111,392	5-5-92	Malin	—	—	6-9-89
	5	5,119,307	6-2-92	Blaha et al.	—	—	12-22-89
	6	5,239,487	8-24-93	Horejsi et al.	—	—	10-24-90
	7	5,293,640	3-8-94	Gunmar et al.	—	—	
	8	5,307,261	4-26-94	Maki et al.	—	—	6-28-91
	9	5,337,149	8-9-94	Kozah et al.	—	—	11-12-92
	10	5,339,184	8-16-94	Tang	—	—	6-15-92
T.2.	11	5,375,123	12-20-94	Andersson et al.	—	—	2-5-93

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

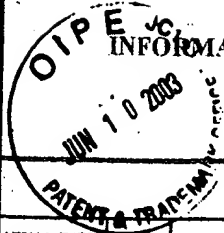
EXAMINER

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DATE CONSIDERED

9/22/04

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

0256 AA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.E.	12	5,394,522	2-28-95	Sanchez-Frank et al.	—	—	9-13-93
	13	5,450,615	9-12-95	Fortune et al.	—	—	12-22-93
	14	5,458,123	10-17-95	Unger	—	—	4-29-94
	15	5,465,390	11-7-95	Cohen	—	—	2-12-93
	16	5,482,050	1-9-96	Smokoff et al.	—	—	2-17-94
	17	5,485,568	1-16-96	Venable et al.	—	—	10-8-93
	18	5,491,644	2-13-96	Pickering et al.	—	—	9-7-93
	19	5,491,837	2-13-96	Haartsen	—	—	3-7-94
	20	5,493,679	2-20-96	Virgil et al.	—	—	10-29-93
	21	5,515,269	5-7-96	Willis et al.	—	—	11-8-93
T.E.	22	5,528,518	6-18-96	Bradshaw et al.	—	—	10-25-94

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional) 0256 AA		Application Number 09/667,689
Applicant(s) T. Rappaport et al.		
Filing Date 9/22/00	Group Art Unit	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	23	5,539,665	7-23-96	Lamming et al.	—	—	7-25-94
	24	5,553,312	9-3-96	Gatley et al.	—	—	6-20-94
	25	5,553,620	9-10-96	Snider et al.	—	—	5-2-95
	26	5,555,354	9-10-96	Strasnick et al.	—	—	3-23-93
	27	5,561,841	10-1-96	Markus	—	—	
	28	5,564,070	10-8-96	Want et al.	—	—	7-30-93
	29	5,594,946	1-14-97	Menich et al.	—	—	2-28-95
	30	5,598,532	1-28-97	Liron	RECEIVED JUN 11 2003 Technology Center 2100		10-21-93
	31	5,625,827	4-29-97	Krause et al.			12-23-94
	32	5,636,344	6-3-97	Lewis			8-22-91
T.Z.	33	5,689,355	11-18-97	Okubo et al.	—	—	7-1-96

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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EXAMINER <i>Tim Z...</i>	DATE CONSIDERED <i>9/23/01</i>
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Docket Number (Optional)		Application Number
0256 AA		09/667,689
Applicant(s)		
T. Rappaport et al.		
Filing Date		Group Art Unit
9/22/00		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	34	5,761,093	6-2-98	Urbish et al.	—	—	5-8-97
	35	5,794,128	8-11-98	Brockel et al.	—	—	9-20-95
	36	5,799,154	8-25-98	Kuriyan	—	—	6-27-96
	37	5,809,282	8-15-98	Cooper et al	—	—	6-7-95
	38	5,815,395	9-29-98	Hart et al.	—	—	6-29-95
	39	5,828,960	10-27-98	Tang et al.	—	—	3-31-95
	40	5,831,610	11-3-98	Tonelli et al.	—	—	2-23-96
	41	5,832,389	11-3-98	Dent	—	—	4-3-96
	42	5,861,887	1-19-99	Butler et al.	—	—	12-5-95
	43	5,867,112	2-2-99	Kost	—	—	5-14-91
T.Z.	44	5,877,777	3-2-99	Colwell	—	—	4-7-97

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T.Z.	7/23/00

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Applicant(s)

T. Rappaport et al.

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Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	45	5,878,328	3-2-99	Chawla et al.	—	—	12-21-95
	46	5,907,850	5-25-99	Krause et al.	—	—	1-21-97
	47	5,917,808	6-29-99	Kosbab	—	—	1-17-97
	48	5,923,850	7-13-99	Barroux	—	—	6-28-96
	49	5,926,762	7-20-99	Arpec et al.	—	—	5-17-96
	50	5,940,196	8-17-99	Piehler et al.	—	—	5-16-97
	51	5,945,976	8-31-99	Iwamura et al.	RECEIVED		12-10-96
	52	5,948,055	9-7-99	Pulsipher et al.	JUN 11 2003		8-29-96
	53	5,949,335	9-7-99	Maynard	Technology Center 2100		4-14-98
	54	5,949,988	9-7-99	Feisullin et al.	—	—	4-3-97
T.Z.	55	5,953,669	9-14-99	Stratis et al.	—	—	12-11-97

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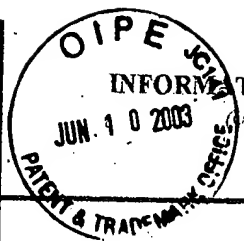
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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

02507AA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	56	5,963,867	10-5-99	Reynolds et al.	—	—	8-16-95
	57	5,970,406	10-19-99	Komara	—	—	12-31-96
	58	5,987,328	11-16-99	Ephremides et al.	—	—	4-24-97
	59	6,006,021	12-21-99	Tognazzini	—	—	7-1-96
	60	6,018,625	1-25-00	Hayball et al.	—	—	8-27-97
	61	6,021,316	2-1-00	Heiska et al.	—	—	
	62	6,032,105	2-29-00	Lee et al.	—	—	7-31-97
	63	6,038,547	3-14-00	Casto	—	—	1-7-98
	64	6,044,273	3-28-00	Tekinay	—	—	12-10-96
	65	6,058,102	5-2-00	Drysdale et al	—	—	11-6-98
T.Z.	66	6,058,262	5-2-00	Kawas et al.	—	—	4-18-97

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

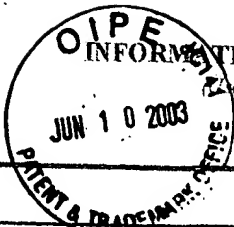
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T. Z. Rappaport

DATE CONSIDERED

9/22/04

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INFORMATION DISCLOSURE CITATION

(See several sheets if necessary)

Docket Number (Optional)

0256 AAA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	67	6,059,842	5-9-00	Dumarot et al.	—	—	4-14-98
	68	6,061,722	5-9-00	Lipa et al.	—	—	12-23-96
	69	6,075,541	6-13-00	Maclinovsky	—	—	11-7-97
	70	6,088,522	7-11-00	Lee et al.	—	—	7-31-97
	71	6,104,699	8-15-00	Holender et al.	—	—	
	72	6,108,309	8-22-00	Cohoe et al.	—	—	12-8-97
	73	6,111,857	8-29-00	Soliman et al.	—	—	9-11-97
	74	6,122,083	9-19-00	Ohta et al.	—	—	10-3-94
	75	6,148,010	11-14-00	Sutton et al.	—	—	6-24-98
	76	6,199,032	3-6-01	Anderson	—	—	7-22-98
T.Z.	77	6,204,813	3-20-01	Wadell et al.	—	—	2-20-98

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						YES	NO

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EXAMINER

T. Z. Rappaport

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

02577AA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	78	6,208,833	3-27-01	Preschutti et al.	—	—	6-24-97
	79	6,229,540	5-8-01	Tonelli et al.	—	—	10-13-98
	80	6,253,086	6-26-01	Parantainen et al.	—	—	3-25-99
	81	6,285,377	9-4-01	Greenbaum et al.	—	—	6-26-97
	82	6,289,203	9-11-01	Smith et al.	—	—	2-25-98
	83	6,317,599	11-13-01	Rappaport et al.	—	—	5-26-99
	84	6,326,987	12-4-01	Alexander	—	—	12-19-00
	85	6,330,005	12-11-01	Tonelli et al.	—	—	10-6-99
	86	6,311,144	10-30-01	Abu El Ata	—	—	7-31-98
	87	6,337,688	1-8-02	Berstis	—	—	1-29-99
T.Z.	88	6,338,031	1-8-02	Lee et al.	—	—	2-23-99

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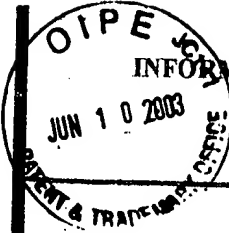
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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)	Application Number
02560 A	09/667,689
Applicant(s) T. Rappaport et al.	
Filing Date 9/22/00	Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TZ	89	6,356,758	3-12-02	Almeida et al.	—	—	12-31-97
	90	6,393,432	5-21-02	Flansburg et al.	—	—	6-2-99
	91	6,408,312	6-18-02	Forthman et al.	—	—	8-30-99
	92	6,442,507	8-27-02	Skidmore et al.	—	—	12-29-98
	93	6,470,195	10-22-02	Meyer	—	—	10-31-00
	94	6,487,417	11-26-02	Rossoni et al.	—	—	11-24-99
	95	6,493,679	12-10-02	Rappaport et al.	—	—	5-26-99
	96	6,496,290	12-17-02	Lee	—	—	12-17-98
	97	6,499,006	12-24-02	Rappaport et al.	—	—	7-14-99
	98	6,505,045	1-7-03	Hills et al.	—	—	4-10-00
TZ	99	5,586,254	12-17-96	Kondo	—	—	

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>Ty Zhu</i>	DATE CONSIDERED <i>9/22/04</i>
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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

025007AA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	100	6,085,335	7-4-00	Djoko et al.			12-31-97
	101	5,710,758	1-20-98	Soliman et al.			9-29-95
	102	5,821,937	10-13-98	Tonelli et al.			8-12-96
	103	5,774,669	6-30-98	George et al.			7-28-95
	104	5,802,146	9-1-98	Dulman			11-22-95
	105	5,825,759	10-20-98	Liu			7-24-95
	106	5,845,124	12-1-98	Berman			5-1-96
	109	6,199,032	3-6-01	Anderson			7-22-98
	110	5,467,441	11-14-95	Stone et al.			10-6-94
	111	6,243,772	6-5-01	Ghori et al.			1-31-97
T.Z.	112	5,994,984	11-30-99	Stancil et al.			5-29-98

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REF	DOCUMENT NUMBER	DATE	QUESTIONS	YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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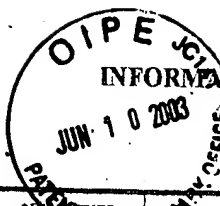
T. Rappaport

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9/23/02

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Opposition)	Application Number
025607AA	09/667,689
Applicant(s) T. Rappaport et al.	
Filing Date 9/22/00	Group Art Unit

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T.2.	1	P. Bahl, V. Padmanabhan, and A. Balachandran, "A Software System for Locating Mobile Users: Design, Evaluation, and Lessons," Microsoft Technical Report, April 2000
	2	G. Durgin, T.S. Rappaport, H. Xu, Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz," IEEE Transactions on Communications, vol. 46, no. 11, November 1998.
	3	C.M. Peter Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Band Propagation Model for In-Building Personal Communications Systems," International Journal of Wireless Information Networks, Vol. 1, No. 1, 1994.
	4	S. Kim et al., "Radio Propagation Measurements and Predictions Using Three-dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz," IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999
	5	T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995
	6	R.K. Morrow, Jr. and T.S. Rappaport, "Getting In," Wireless Review Magazine, March 2000.
	7	Wireless Valley Communications, Inc., "SitePlanner 3.16 for Windows 95/98/NT User's Manual," Software User's Manual, pp.5-148 to 5-156, 1999.
	8	M. Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments," IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996.
	9	L. Piazzzi and H.L. Bertoni, "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments" IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999.
	10	T.S. Rappaport et al., "Wireless Communications: Past Events and a Future Perspective", IEEE Communications Magazine, May 2002.
	11	T.S. Rappaport et al., "Radio Propagation Prediction Techniques and Computer-Aided Channeling Modeling for Embedded Wireless Microsystems," ARPA Annual Report, MPRG Technical Report MPRG-TR-94-12, Virginia Tech, July 1994.
T.2.	12	T.S., Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, November 1995

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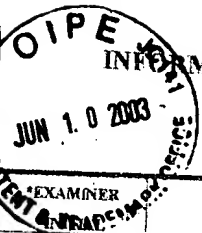
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Docket Number (Optional)

0037AA

Application Number

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Applicant(s)

T. Rappaport et al.

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Group Art Unit

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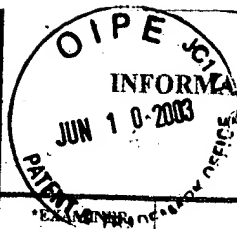
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

02560000AA

Application Number

09/667,689

Applicant(s)

T. Rappaport et al.

Filing Date

9/22/00

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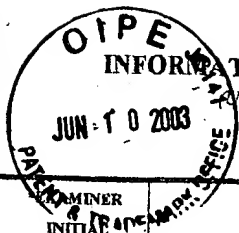
Technology Center 2100

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Docket Number (Optional) 028 37AA		Application Number 09/667,689
Applicant(s) T. Rappaport et al.		
Filing Date 9/22/00	Group Art Unit	

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T.2.	Company Web Page "Actix" www.actix.com product name: E-NOS (now E-AMS)
	Company Web Page " Agilent" www.agilent.com product name: OPAS32
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	Company Web Page " Comarco" www.edx.com product name: SignalPro
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EXAMINER Tay Zhen	DATE CONSIDERED 9/23/01
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Docket Number (Optional)	Application Number
02560037AA	09/667,689 #77
Applicant(s) Rappaport et al.	
Filing Date	Group Art Unit
9-22-00	2122

[illegible][illegible]

T. 1.	1	Software by Andrew titled "RF Planner" dated 6-17-97
T. 2.	2	A user guide titled: "Andrew Microwave System Planner" dated 7-99
	3	A user guide titled: "Andrew Antenna System Planner" dated 6-99

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<div style="text-align: center;">  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> </div>	Docket Number (Optional) <div style="text-align: center;">02560037AA</div>		Application Number <div style="text-align: center;">09/667,689 #8</div>
	Applicant(s) <div style="text-align: center;">Rappaport et al.</div>		
	Filing Date <div style="text-align: center;">9-22-00</div>	Group Art Unit <div style="text-align: center;">2122</div>	

U.S. PATENT DOCUMENTS

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